

E-1-05032011.PDF

Examin

ELECTRICAL SIMBOLS & LEGEND:

\$ SPST WALL SWITCH, W/ DIMMER

\$ SPST WALL SWITCH

\$ DPDT WALL SWITCH (3-WAY)

\$ DPDT WALL SWITCH (4-WAY)

₩ DUPLEX WALL RECEPTACLE/BELLOW COUNTER AT 18" AFF.

240V OUTLET

GND FAULT INTERRUPTER DUPLEX RECEPT, 42" AFF COUNTER MOUNT.

₩EATHER PROOF GFI DUPLEX RECEPT.

P DUPLEX WALL RECEPTACLE, \ SWITCHED

TELEVISION OUTLET

TELEPHONE OUTLET

JUNCTION BOX

DBL. LAMP INC. FLOOD LIGHT

O LIGHT FIXTURE.

Q INC. WALL BRACKET / SCONCE OVP INCANDESCENT VAPOR PROOF LIGHT.

WIRING

NFT NON-FUSED DISC. SWITCH

DISC. SWITCH. POLES AND SIZE PER DRAWINGS

ELECTRICAL PANEL

EXHAUST FAN

KP SECURITY ALARM KEYPAD

SECURITY ALARM MASTER CONTROL CABINET. BY OTHERS.

(SD) SMOKE/CARBON MONOXIDE DETECTOR, 120V

PUSH BUTTON.

B CHIME.

Residential Standard Calculation CANAL RESIDENCE PANEL A STEP 1 Article 220,42 & 220,52 **Company Name** sq. ft ▼ 2500 General Lighting load 7,500 VA Company Address 2 Small Appliance 3,000 VA* City, State, Zip 1 Laundry circuit 1,500 VA Telephone and Fax Gen Lgt ,Sm App & Laun Load 12,000 VA 4/25/2011/20/49 3,000 VA @ 100%= 3,000 VA* 9,000 VA @ 35% = 3,150 VA* General Lighting Demand Load 6,150 VA STEP 2 Article 220 50 & 220 51 2 ton 🔻 3,750 VA AHU 1 SkW 🔻 5,800 VA Total Heat Load 11,600 VA 4 ton - 6,300 VA AHU 2 5kW - 5,800 VA 10.050 V Total CU Load VA AHU 3 Select ▼ Greater of Heat @ 100% vs.A/C @ 100% 11,600 VA VA AHU 4 Select 🔻 VA AHU 5 Select ▼ **STEP 3** Article 220.53 Appliance Demand Load 28,900 VA Water Heater 11,800 VA Refrigerator 1,400 VA Dryer Demand Load 5,000 VA Freezer *Dishwasher 1,030 VA Range Demand Load *Disposal 690 VA Trash Compactor Service Demand 51,650 VA Microwave Central Vac Demand Load 215 A *Mini Refrigerator 340 VA Range hood 500 VA Neutral Demand 51 A Wine Cooler 540 VA Ironing Center Min.Service Req. 225 A → Jacuzzi Tub Min. Feeder size ▼ Sprinkler Pump 3/0 select 🔻 Well Pump Min. Neutral size select 🔻 Fountain Pump Eq. Grding Cond. Elevator Comper 2,975 VA 100% Demand Pool Equip. Panel 2500 *Oven/Microwave 2 * 2,500 VA Apply Demand 12800 *Inst. EWH (2) 🗸 * 12,800 VA Apply Demand Total Appliance Load 37,542 VA 4 or more demand @ 75% plus 100% demand loads 28,900 VAT STEP 4 Article 220 54 Electric Clothes Dryers 5,000 VA STEP 5 Article 220.55 Electric Ranges Col B demand Cooktop Col B demand Cooktop Check Box for Gas Range Col B demand Oven(s) Col B demand Oven(s) Number of appliances Dem Factor 0% Cooktop & Oven Demand Load Pool Panel Feeder Calculation (See Note) Non-continuous Continuous Motors 2,875 Motors Motors Non-continuous 1.5 hp |▼| J‴ 240× | select | ▼ | Spa heater 11 kVA select ▼ 1″ 240v select ▼ Pool heater 3.5 ton select ▼ 1 240v select ▼ Pool heater 5 ton select ▼ 1 240v select ▼ select ▼ C 240V select ▼ 0 T 240v 0 J 240v 0.0 Motor Neutral Load 0 JT 240v

Phase Amperes Neut, load

Max Unbalanced Neutral Load

ELECTRICAL NOTES

- 3. ALL TELEPHONE RELATED EQUIPMENT PER TELEPHONE CO.
- . ELECTRICAL INSTALLATION DESIGN OF THIS PLAN IN IN COM-PLIANCE AS SET FORTH BY STATE OF FLORIDA STATUTES MODEL ENERGY EFFICIENCY CODES.
- 5. THE CONTRACTOR WILL EXAMINE THE JOB SITE AND DETERMINE FOR
- ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR. IT WILL BE HIS RESPONSIBILITY TO
- . CLEAN UP SUCH TRASH AND DEBRIS GENERATED BY THE WORK AND CONDITION READY TO RECEIVE WITHOUT FURTHER PREPARATION, UNLESS SO SPECIFIED IN OTHER SECTIONS, ANY ADJACENT OR
- MATERIALS, APPLIANCES, DEVICES AND EQUIPMENT SHALL MEET WITH THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES AND TURERS REGULARLY ENGAGED IN THE PRODUCTION OF THE ITEM, UNLESS OTHERWISE INDICATED. LIKE ITEMS SHALL BE THE PRO-
- LOCATION OF OUTLETS.
- 12. PROVIDE TYPEWRITTEN SCHEDULES FOR PANELBOARDS.
- 13. A/C EQUIPMENT WIRING, BREAKER AND FUSE SIZES ARE BASED ON A/C EQUIPMENT SPECIFIED ON ORIGINAL CONTRACT DRAWINGS. CON-TRACTOR IS RESPONSIBLE FOR PROVIDING ALL WIRING, BREAKER AND FUSES SIZES IN ACCORDANCE WITH A/C EQUIPMENT NAMEPLATE REQUIREMENTS IF DIFFERENT FROM THAT SPECIFIED ON DRAWINGS. AS WELL AS ANY FEEDER CHANGES BEING AFFECTED BY THIS CHANGE. CONTRACTOR SHALL MAKE ABOVE MENTIONED CHANGES AT NO EXTRA COST. HACR CIRCUIT BREAKERS MAY BE USED IN PLACE OF FUSES. USE NON-AUTOMATIC SWITCH FOR A/C COND. DISCONNECT. (COMPLY W/NEC 110-26)
- 16. ALL BEDROOMS OUTLETS TO BE PROTECTED BY
- 7. LIGHTS TO BE SELECTED BY ARCHITECT AND INSTALLED BY CONTRACTOR, LIGHTS SHALL NOT BE GRATER THAN 100 WATTS.

- 1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES.
- 2. COORDINATE ELECTRICAL SERVICE W/FLORIDA POWER AND LIGHT
- ANSI/EIA/TIA-570
- HIMSELF PRIOR TO SUBMISSION OF BID EXISTING CONDITIONS.
- SECURE AND PAY FOR ANY PERMITS, CERTICATES OF INSPECTION
- SUBSTITUTE MATERIALS EQUIPMENT OR METHODS SHALL NOT BE MADE WITHOUT APPROVAL OF THE ENGINEER. IF THE USE OF A SUBSTITUTE REQUIRES ANY CHANGE IN WORK. THE NECESSARY FOR SUCH CHANGE WILL BE BROUGHT TO THE ATTENTION OF THE ENGI-NEER. AND IF APPROVED, SHALL BE MADE AT NO COST TO THE
- LEAVE COMPLETED WORK IN A CLEAN, UNDAMAGED, AND FINISHED ABUTTING WORK TO BE PERFORMED BY OTHERS.
- SHALL BE NEW AND THE LATEST STANDARD PRODUCTS OF MANUFAC-DUCT OF A SINGLE MANUFACTURER.
- 10. ALL CONDUCTORS SHALL BE COPPER ROMEX AND IT MIGHT BE RUN IN CONDUIT. WIRE TYPE SHALL BE THWN UNLESS OTHERWISE NOTED ON PLANS. PROVIDE GROUND CONDUCTOR PER NEC ARTICLE 250-122.
- 11. SPECIAL EQUITMENT LOCATIONS OF OULETS IN ELECTRICAL DRAWINGS ARE DIAGRAMMATIC: CHECK MANUFACTURER'S DRAWING FOR EXACT
- 14. ALL SMOKE DETECTORS TO BE INTERCONNECTED ON SAME CKT (KITCHEN OR BATH LTG.) OR IN A DEDICATED CIRCUIT.
- 15. RANGE AND DRYER SHALL HAVE BOTH NEUTRAL & GROUNDING WIRE PER NEC ARTICLE 250-140.
- AN ARC-FAULT INTERRUPTER.(AFCI)

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PROJECT:

OWNER: **EDUARDO DUQUE** YUDELKIS ESPINOSA 11245 SW 58 TERRACE **MIAMI, FL 33156**

PROJECT: ADDITION, **RENOVATION AND REMODELING TO: CANAL RESIDENCE** 11245 SW 58 TERRACE **MIAMI, FL 33156**

MANAGEMENT:

. 1	#	REVISIONS	DATE
	DATE: FEBRUARY 8, 2011		
	PROJECT No. :		
	DRAWN BY:		
A	CHE	CKED BY:	

SHEET TITLE:

ELECTRICAL SITE PLAN

SHEET No: